

GP-1639
PTO/SB/21 (08-03)
IFW**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

	Application Number	10,044,899
	Filing Date	January 9, 2002
	First Named Inventor	Abbott, Nicholas L.
	Art Unit	1639
	Examiner Name	Celsa, Bennett
Total Number of Pages in This Submission	Attorney Docket Number	061818-5002-04-US

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request (See Remarks) <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): <ul style="list-style-type: none">• Return postcard• Schedule A• Copies of 3.73(b) Statement• Notice of Recordation of Assignment• Assignment
Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 50-0310.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Morgan, Lewis & Bockius LLP	Reg. No. 42,837
Signature		
Date	September 24, 2004	

CERTIFICATE OF TRANSMISSION/MAILING

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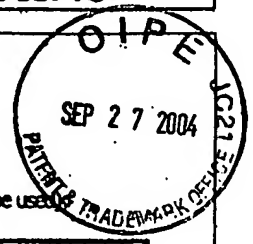
Typed or printed name	Kathryn A. Degliantoni		
Signature		Date	September 24, 2004



61818-5002-US04

PTO/SB/96 (12-07)
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043850

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used)

Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Assigned Name and Address:

The Regents of the University of California
The Office of the President
1111 Franklin Street, 12th Floor
Oakland, CA 94607-5200

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Name	Ms. Linda S. Stevenson		
Signature		Date	August 23, 2004
Title	Manager, Patent Prosecution	Telephone	(510) 587-6000

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to be and by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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61818-5002-US04.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: See Attached Schedule A
Serial No.: See Attached Schedule A
Filed: See Attached Schedule A
For: See Attached Schedule A Attorney Docket No: See Attached Schedule A

REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

The Regents of the University of California, owner of the entire right, title and interest in, to and under the inventions listed in the attached Schedule hereby revokes all previous powers of attorney and appoints Morgan, Lewis & Bockius LLP, Customer No. 43850, and each of them, its attorneys, to prosecute these matters, and to transact all business in the Patent and Trademark Office connected therewith, said appointment to be to the exclusion of the inventors and their attorney(s) in accordance with the provisions of 37 C.F.R. 3.71, provided that, if any one of these attorneys ceases being affiliated with the law firm of Morgan, Lewis & Bockius LLP as partner, counsel, or employee, then the appointment of that attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

Please direct all future correspondence to the address associated with Customer No. 43850 and direct all telephone calls to Morgan, Lewis & Bockius LLP at (650) 493-4935.

Date: July 14, 2004
Assignee: Regents of the University of California
Signature: Linda S. Stevenson
Typed Name: Ms. Linda S. Stevenson
Position/Title: Manager, Patent Prosecution
Address: Office of Technology Transfer
111 Franklin Street, 5th Floor
Oakland, CA 94067-5200

SCHEDULE A

[U.S.]

Serial No./Patent No:	Filing Date/Issue Date:	Title:	1st Named Inventor:	Docket No:
09/127,382 6,284,197	July 31, 1998 September 4, 2001	Optical Amplification of Molecular Interactions Using Liquid Crystals	Abbott, Nicholas L.	61818-5002-01
09/637,844	August 10, 2000	Optical Amplification of Molecular Interactions Using Liquid Crystals	Abbott, Nicholas L.	61818-5002-02
09/898,132	July 3, 2001	Optical Amplification of Molecular Interactions Using Liquid Crystals	Abbott, Nicholas L.	61818-5002-03
10/044,899	January 9, 2002	Optical Amplification of Molecular Interactions Using Liquid Crystals	Abbott, Nicholas L.	61818-5002-04
09/131,010 6,342,378	August 7, 1998 January 29, 2002	Biogasification Of Solid Waste With An Anaerobic-Phase Solids-Digester System	Zhang, Ruihong	61818-5003
10/013,423	December 11, 2001	Biogasification Of Solid Waste With An Anaerobic-Phase Solids-Digester System	Zhang, Ruihong	61818-5003-01
09/233,293 6,288,392	January 19, 1999 September 11, 2001	Quantitative Characterization Of Obliquely-Deposited Substrates Of Gold By Atomic Force Microscopy: Influence Of Substrate Topography On Anchoring Of Liquid Crystals	Abbott, Nicholas L.	61818-5004
08/192,508 5,514,200	February 7, 1994 July 8, 1997	Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006

Serial No:/Patent No:	Filing Date/Issue Date:	Title:	1st Named Inventor:	Docket No:
08/642,574 5,830,255	May 3, 1996 November 3, 1998	Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006-01
09/126,233 6,113,665	July 30, 1998 September 5, 2000	Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006-02
09/637,621	August 11, 2000	Novel Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006-03
10/341,966 6,645,268	January 13, 2003 November 11, 2003	Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006-04
10/686,411	October 14, 2003	Novel Formulation of Phosphorous Fertilizer for Plants	Lovatt, Carol J.	61818-5006-05
09/349,814 6,287,851	July 9, 1999 September 11, 2001	Sensor For Analyzing Components Of Fluids	Delwiche, Michael J.	61818-5008
09/839,939	April 19, 2001	Sensor For Analyzing Components Of Fluids	Delwiche, Michael J.	61818-5008-01
10/209,455	July 30, 2002	Sensor For Analyzing Components Of Fluids	Delwiche, Michael J.	61818-5008-02



FEBRUARY 10, 1999

PTAS

TOWNSEND AND TOWNSEND AND CREW LLP
JEFFRY S. MANN
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CALIFORNIA 94111-3834

6 3072-08581048
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

J.S. Mann



100859317A

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RECORDATION DATE: 10/13/1998

REEL/FRAME: 9521/0374

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ABBOTT, NICHOLAS L.

DOC DATE: 09/09/1998

ASSIGNOR:

SKAIFE, JUSTIN J.

DOC DATE: 09/18/1998

ASSIGNOR:

GUPTA, VINAY K.

DOC DATE: 09/14/1998

ASSIGNOR:

DUBROVSKY, TIMOTHY B.

DOC DATE: 09/15/1998

ASSIGNOR:

SHAH, RAHUL

DOC DATE: 09/17/1998

ASSIGNEE:

REGENTS OF THE UNIVERSITY OF
CALIFORNIA, THE
1111 FRANKLIN STREET, 12TH FLOOR
OAKLAND, CALIFORNIA 94607-5200

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9521/0374 PAGE 2

SERIAL NUMBER: 09127382
PATENT NUMBER:

FILING DATE: 07/31/1998
ISSUE DATE:

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

10-23-1998

Attorney Docket No. 02307Z-085810US

FORM PTO-1595
(Rev. 6-93)

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100859317

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Nicholas L. Abbott

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

2. Name and address of receiving party(ies):

Name:

The Regents of the University of California

Internal Address:

Street Address: 1111 Franklin Street, 12th Floor

City: Oakland State: CA ZIP: 94607-5200

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other:

Execution Date: 09/09/98; 09/14/98; 09/15/98;
09/17/98; and 09/18/98

4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 09/127,382

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jeffry S. Mann
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):..... \$ 40.00



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Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account

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Jeffry S. Mann

Name of Person Signing

Signature

Date

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Total number of pages including cover sheet, attachments, and documents: 3

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10/22/1998 JET/KDS 00000037 001430 40.00 ET 3

1. Additional name(s) of conveying party(ies):
(Continued from Page 1)

Justin J. Skaife
Vinay K. Gupta
Timothy B. Dubrovsky
Rahul Shah

2. Additional name(s) and address(es) of receiving party(ies):
(Continued from Page 1)

4. Additional application number(s) or patent number(s):
(Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

ASSIGNMENTU.C. Case No. 98-207-2

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S),

- | | |
|------------------------------|--------------------------------|
| 1. <u>Nicholas L. Abbott</u> | 2. <u>Justin J. Skaife</u> |
| 3. <u>Vinay K. Gupta</u> | 4. <u>Timothy B. Dubrovsky</u> |
| 5. <u>Rahul Shah</u> | |

hereby sells, assigns and transfers to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located at 1111 Franklin Street, 12th Floor, Oakland, CA 94607-5200, and the successors, assigns and legal representatives of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

OPTICAL AMPLIFICATION OF MOLECULAR INTERACTIONS USING LIQUID CRYSTALS

and which is found in

- (a) _____ U.S. provisional application filed herewith and listing the above-named persons as inventors
- (b) _____ U.S. patent application filed herewith and listing the above-named persons as inventors
- (c) X _____ U.S. application serial no. 09/127,382, filed on July 31, 1998
- (d) _____ U.S. Patent No.: , issued _____

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension, conversion to 35 USC 111(a) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

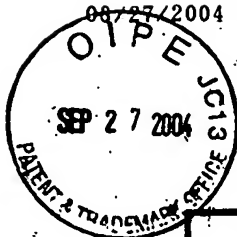
AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, The Regents of the University of California.

executed this

Signature of Inventor(s)

9 day of SEPT, 1998
14 day of SEPT, 1998
15 day of SEPT, 1998
17 day of SEPT, 1998
18 day of Sept, 1998

MO Abbott
Vinay K. Gupta
Timothy B. Dubrovsky
Rahul Shah
Justin J. Skaife



PTO/SB/06 (06-00)

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Attorney Docket No. 61818-5002-US01

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Nicholas L. Abbott, et al.Application No./Patent No.: 09/127,382Filed/Issue Date: July 31, 1998Entitled: OPTICAL AMPLIFICATION OF MOLECULAR INTERACTIONS USING LIQUID CRYSTALSThe Regents of the University of California, a California corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9521, Frame 9374, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

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The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

August 23, 2004
Date

Linda S. Stevenson
Signature

Linda S. Stevenson

Typed or printed name

Manager, Patent Prosecution

Title

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